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A292,7 So 3Wa Cylo 3 United States Department of Agriculture

> Soil Conservation Service

Salt Lake City



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State
Department of Natural Resources



#### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW SURVEYORS AT MT. ST. HELENS, WASHINGTON.

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

#### PUBLISHED BY OTHER AGENCIES:

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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In Cooperation with

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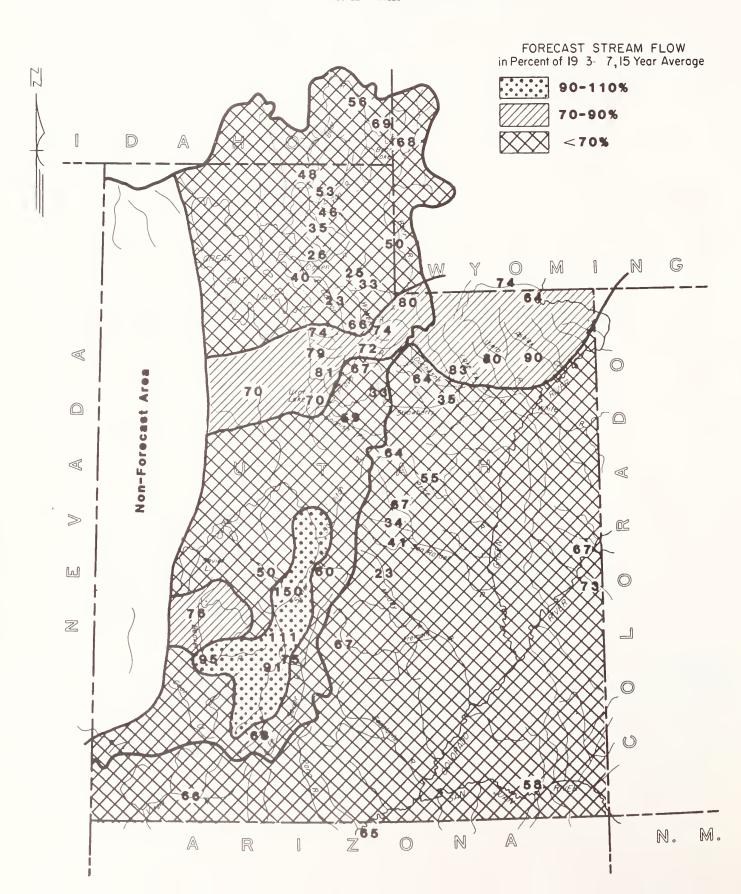
SOIL CONSERVATION SERVICE SNOW SURVEY SECTION 4420 FEDERAL BUILDING SALT LAKE CITY, UTAH 84138

# PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

February 1, 1981





#### SNOW COVER

Snow cover range from 16% of the February 1 average on the Muddy River areas to 71% on the LaSal Mountains near Moab. As a general rule the snow pack in Northern Utah is much better than February 1, 1977 while in Southern Utah it is generally worse.

Basin snow cover is as follows: Bear 35%, Ogden 28%, Weber 43%, Provo 54%, Duchesne 46%, Price 17%, San Rafael 21%, and Fremont 23%; Upper Sevier, Virgin, Blue Mountain areas are 22% of average, Beaver River 43%, Coal Creek 26% and Lower Sevier 35%.

#### PRECIPITATION

Precipitation at mountain stations during the October-January period has generally ranged from 30 to 70% of average. January precipitation ranged from 8 to 111% of average but generally below 50% of average.

#### SOIL MOISTURE

Watershed soils are generally much drier than average as reflected by the lack of fall precipitation over most of the state. These soils are expected to soak up snow melt water this spring and reduce streamflow.

#### RESERVOIR STORAGE

Reservoir storage statewide is about 120% of the fifteen year average and better than February 1, 1977.

Sevier River reservoirs are almost twice average for this time of year. Otter Creek and Gunnison are already full and Sevier Bridge and Piute are expected to fill.

Weber River reservoirs are above average at this time but inflow forecasts into East Canyon and Lost Creek are poor and these reservoirs may not fill unless conditions improve soon.

# WATER SUPPLY OUTLOOK (continued)

Ogden River reservoirs are also above average but the inflow into Pineview is expected to be very short and this reservoir may not fill. Deer Creek Reservoir is a little below average but should fill this spring. Utah Lake is -0.10 feet below compromise and has been releasing water all winter. Smaller reservoirs in southern and central Utah may not fill this year unless conditions improve considerably soon.

#### STREAMFLOW FORECASTS

Streamflow forecasts range from 23% of average on Muddy River to 150% for the inflow Sigard to Gunnison on the Lower Sevier River.

Bear River forecasts range from 80% at state line to 34% at Randolph, 56% at Harer, Idaho, 53% on Logan River, 46% for Blacksmith Fork, and 35% for Little Bear.

Ogden River is forecast 32% for South Fork and 36% for Pineview inflow. Weber River is forecast 74% at Oakly, 66% at Wanship, 59% at Coalville and 40% at Gateway. Chalk Creek is forecast 33%, East Canyon 23%, Lost Creek 25%, and Hardscrabble 32% of the April-June average.

Provo River is forecast 72% at Hailstone, 67% at Deer Creek Dam and 70% for Utah Lake inflow. Salt Lake front streams are forecast from 65% on Emigration Creek to 84% for Big Cottonwood Creek. Vernon Creek is forecast 70% of the March-July average. Strawberry inflow is 33% of average. Uintah Basin streams range from 35% on Strawberry River and Current Creek to 90% for Ashley Creek.

Price River is forecast 55%, San Rafael tributaries range from 34% on Cottonwood to 67% on Huntington Creek.

Sevier River is forecast 68% at Hatch and 128% at Gunnison. Smaller tributories range from 43% at Oak Creek to 82% at Antimony Creek. Beaver River is forecast 95% at Beaver and 76% for Minersville inflow.

Virgin River is forecast 66% at Hurricane and 38% for Santa Clara. Coal Creek is forecast 63% of the April-July average.

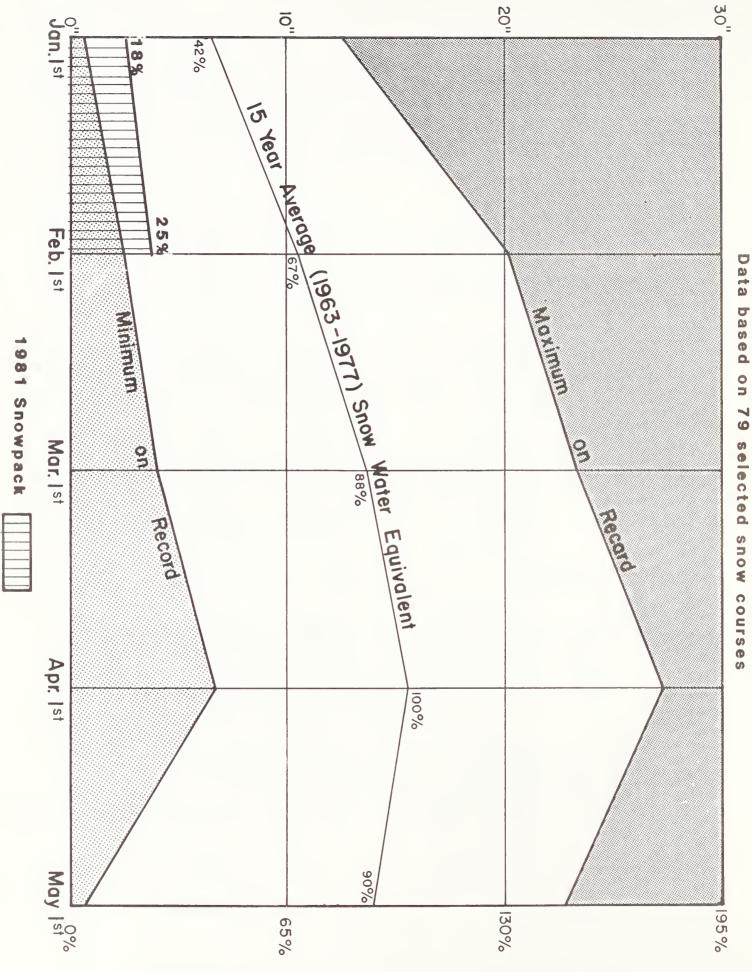
Many water users are likely to have short water supplies by mid-summer if much above normal snow pack increases do not occur between now and April 1. Those with early water rights and/or reservoir storage are expected to have a near average supply. Others may expect a season similar to 1961 or 1977 short years.

# RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	Steinaker       33.3       25.5       13.6       20.5         Blue Mesa       829.5       484.5       510.0				
		Capacity	This Year	Last Year	Average I
GREAT BASIN					
Bear River		1			
Beaver River	Minersville (RkyFd)	23.3	22.8	17.2	12.0
Little Bear					
<u>Ogden</u>				1	
Provo	Deer Creek	149.7	104.1	102.1	107.0
Settlement Creek	1				
Sevier River	Otter Creek Piute	52.5 71.8	52.5 60.4	41.2 51.3	29.6 40.1
Spanish Fork	Strawberry	270.0	213.2	158.8	150.8
Utah Lake	Utah Lake	883.9	874.4	732.5	683.1
<u>Weber</u>	Echo Lost Creek Rockport	73.9 20.0 60.9	55.3 16.1 42.3	43.8 13.6 27.5	48.5 12.9 35.2
COLORADO RIVER BASI	N				
Ashley Creek	Steinaker	33.3	25.5	13.6	20.5
Colora do	Blue Mesa Lake Powell	829.5 25002.0	484.5 21853.0	510.0 20904.0	
Green	Flaming Gorge	3749.0	3009.2	2318.0	
Lakefork	Moon Lake	35.8	15.3	7.5	16.8
Price River	Scofield	65.8	49.0	43.2	34.7
San Juan	Navajo	1696.0	1300.0	1157.0	
San Rafael	Huntington North Joe's Valley Mill Site	3.9 54.6 16.7	1.8 37.3 9.8	2.2 33.8 4.0e	2.4t 36.0t
Strawberry	Starvation	165.3	144.2	42.7	129.4
<u>Uintah</u>	Bottle Hollow	11.3	11.3	10.2	9.81

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# INCHES OF SNOW WATER EQUIVALENT

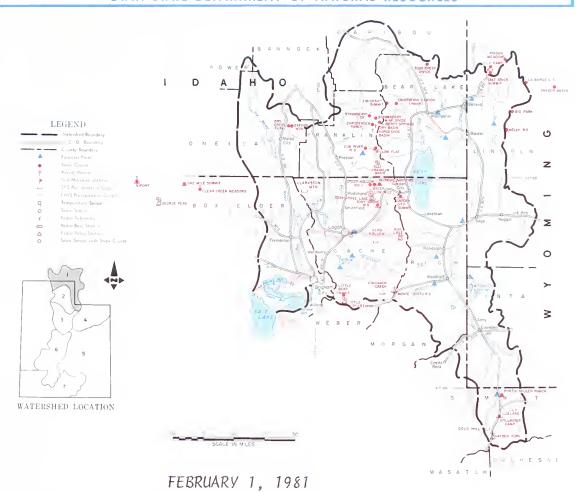


WINTER SNOWPACK

PERCENT OF APRIL IST SNOW WATER EQUIVALENT

# BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



#### THE WATER SUPPLY OUTLOOK IS WELL BELOW AVERAGE

SNOW COVER ranges from 33% of the February 1 average on Logan River to 42% on the Upper Bear. Snow on the Bear Basin has generally about 1/3 as much water as last year at this time but about 1/2 times as much as February 1, 1977.

PRECIPITATION at mountain stations for the total period October 1-February 1 was 41% of average for Monte Cristo and 43% for Willow Flat. January precipitation ranged from 11 to 36% of average.

SOIL MOISTURE under the snow pack is well below average as reflected by the lack of fall precipitation.

RESERVOIR STORAGE is better than last year at this time. Bear Lake and Porcupine are above average while Woodruff Narrows and Hyrum are 23 and 4% below average.

STREAMFLOW FORECASTS range from 20% of the April-July average on Woodruff Creek to 80% of average for Bear near Utah-Wyo. State Line. Other forecasts on the Bear River are 50% at Woodruff, 34% at Randolph and 56% at Harer, Idaho. The Smith's Fork is forecast 68%. Thomas Fork 69%, Cub River 48%, Logan River 53%, Blacksmith Fork 46%, and Little Bear 35% of average. Water users in this area are expected to have water supply shortages this season unless considerably above average snow fall occurs in the next two or three months.

united states department of agriculture soil conservation service

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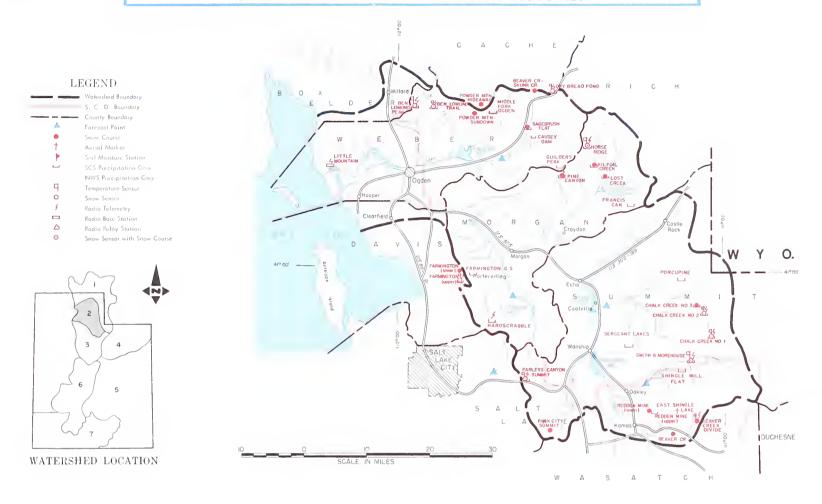


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# WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



#### FEBRUARY 1, 1981

#### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE TO WELL BELOW AVERAGE

SNOW COVER ranges from 28% of average on the Ogden River to 43% on the Weber River. Most measurements average about 1/3 as much as last February 1 but about 1 1/2 to 2 times as much as February 1, 1977. The storm that occurred the last day or two of January only improved the snow pack from 4% at Monte Cristo to 14% at Farmington Upper. Many more storms like this are needed to bring the snow pack up to near average by April 1.

PRECIPITATION at mountain locations for the October-January period ranged from 33% of average at Ben Lomond Trail to 12% at Smith and Morehouse. January precipitation at these same locations was 12% and 41% respectively.

SOIL MOISTURE under the snow pack is much drier than usual as reflected by the lack of fall precipitation. This moisture will be made up from the melting snow pack.

RESERVOIR STORAGE is above average and varies from 114% at Pineview (59,500 A.F.) and Echo (55,400 A.F.) to 133% at Willard (169,600 A.F.) and 200% at Causey (4,100 A.F.) Rockport is 120% (42.300 A.F.) and Lost Creek 125% (16.100 A.F.).

STREAMFLOW FORECASTS range from 23% (6,000 A.F.) for the April-June period on East Canyon Creek to 74% (77,000 A.F.) for Weber at Oakley. Other Weber River forecasts are as follows. Rockport Inflow 66% (74,000 A.F.), Echo Inflow 56% (89,000 A.F.), Chalk Creek 33% (13,000 A.F.), Lost Creek 25% (4,400 A.F.), Hardscrabble 32% (6,100 A.F.), and at Gateway 40% (123,000 A.F.). Farmington Creek is forecast 47% (3,800 A.F.). The South Fork Ogden is forecast 32% (18,000 A.F.) of the April-June average and Pineview Inflow 36% (41,000 A.F.).

Water supplies in this area are expected to be very poor for those users with later water rights and to be near average for those water users with better water rights. At least 1 1/2 to twice average snowfall is needed between now and April 1 to bring us up to near average.

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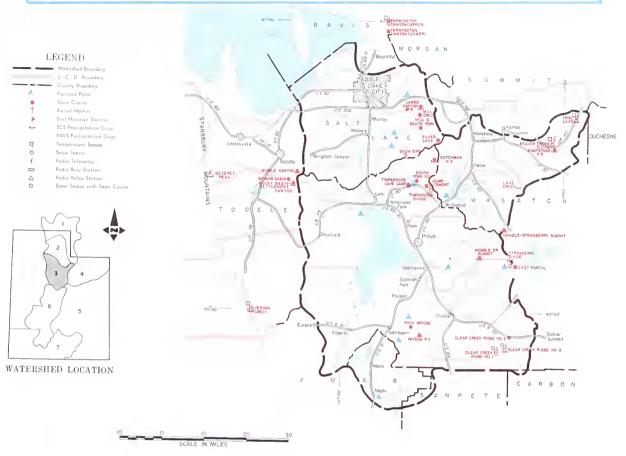


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# UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



#### FEBRUARY 1. 1981

#### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 34% of average in Tooele Valley to 54% on Provo River-Utah Lake drainage. Jordan River-Salt Lake Front drainages are 39% of the February 1 average. Snow water content this year is 1 1/2 to almost 3 times that of February 1, 1977 along the Salt Lake Front but only 9% better than '77 in Middle Canyon above Tooele.

PRECIPITATION at mountain locations ranged from 45% at Hobble Creek Summit to 76% at Middle Canyon for the October-January period. January ranged 39% of average at Timpanogos Divide to 77% at Soapstone.

SOIL MOISTURE under the snow pack is drier than usual and will absorb some snow melt this spring.

RESERVOIR STORAGE is near average in Deer Creek (104,100 A.F.) and above average in Strawberry (213,200 A.F.) and Utah Lake (874,400 A.F.).

STREAMFLOW FORECASTS range from 33% of average for Strawberry Inflow to 84% for Big Cottonwood. Provo River is forecast 72% at Hailstone, 67% at Deer Creek Dam and 70% at Utah Lake Inflow. Payson Creek is forecast 59%, Spanish Fork 59%, Hobble Creek 57% and American Fork 81%.

Streams along the Salt Lake Front are forecast from 65% on Emigration Creek to 79% on Little Cottonwood. Parleys Creek is forecast 74%, Mill Creek 71%, and City Creek 68%. Vernon Creek is forecast 70% of the March-July average.

Water users in this area are expected to have below average water supplies unless they have an early water right.

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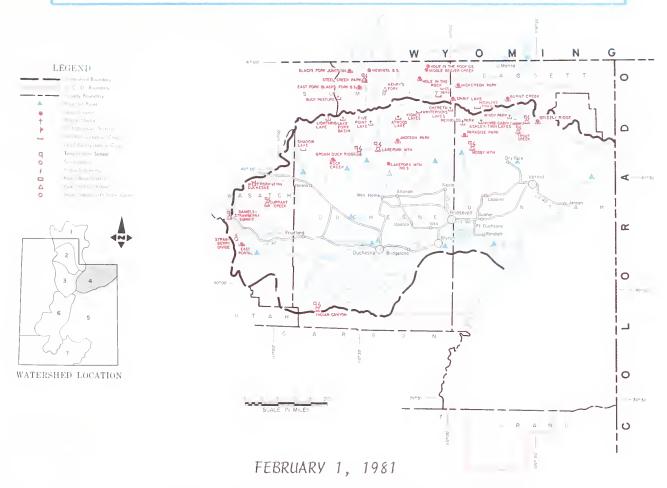
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## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



#### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 23% of average on Strawberry River to 71% on Lakefork-Vellows tone Creeks. The Uintah-Whiterocks is 69% and Ashley Creek 63% of the February 1 average. Snow cover in Uintah Basin this year is much better than on February 1, 1977 except on Strawberry and Currant Creek.

PRECIPITATION at mountain stations for the October-January period ranged from 48% of average at Daniels Summit to 92% at Paradise Park. January precipitation was 8% of average at Indian Canyon and 111% at Paradise Park.

SOIL MOISTURE under the snow pack is well below average at most locations as indicated by fall precipitation.

RESERVOIR STORAGE ranges from near average at Moon Lake to 124% of average at Steinaker. Starvation is reported as being held down some to complete a study.

STREAMFLOW FORECASTS range from 35% for Currant Creek and Strawberry River to 90% for Ashley Creek for the April-July period. The Duchesne is forecast 64% at Tabiona, 67% at Duchesne, 54% at Myton, and 50% at Randlett. Rock Creek is forecast 74%, Lakefork 83%, Yellowstone 79%, Uintah 80% and White Rocks 88% of the April-July average.

Water users in this area are expected to have some shortages in late season unless weather conditions improve the snow pack by April 1.

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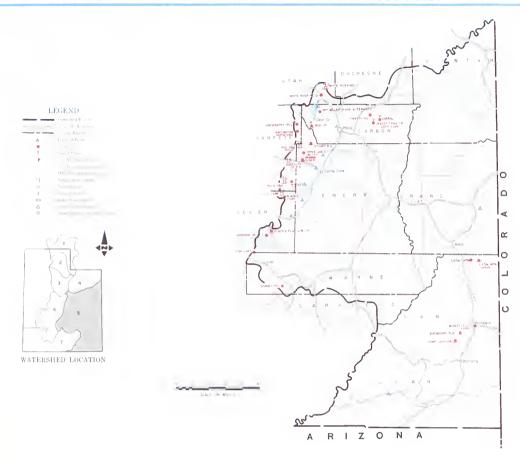
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CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 198

#### THE WATER SUPPLY IS WELL BELOW AVERAGE

SNOW COVER ranges from 16% of average on Muddy Creek to 46% on the LaSal Mountains above Moab. Price River is 17%, San Rafael tributaries are 21% and Fremont 23% of the February 1 average. Snow courses in the higher elevations such as Seeley Creek and Huntington-Horseshoe have about 1 1/2 to 2 times the water content they had February of 1977. Lower elevation sites have less than 1977 water contents.

PRECIPITATION at mountain locations has been less than half average for the October-January period at most stations. January precipitation was very short with only 15% of average at Mud Creek on the head of the Price River.

SOIL MOISTURE under snow pack is much drier than usual and will absorb several inches of snow melt water.

RESERVOIR STORAGE is near average in Huntington and Joe's Valley and above average in Scofield and Mill Site.

STREAMFLOW FORECASTS range from 23% of the April-July average on Muddy Creek to 73% on Mill Creek near Moab. Other forecasts are as follows: Scofield Inflow 64% (23,000 A.F.), Price River 55% (35,000 A.F.), Huntington Creek 67%

(31,000 A.F.), Cottonwood 34% (15,000 A.F.), Ferron Creek 41% (14,000 A.F.) and Seven Mile Creek 67% (4,300 A.F.). The Colorado at Cisco is forecast 67%, Green River 64% and San Juan near Bluff 58% of the April-July average.

Water users in the area are expected to have short water supplies unless they have a good storage water right.

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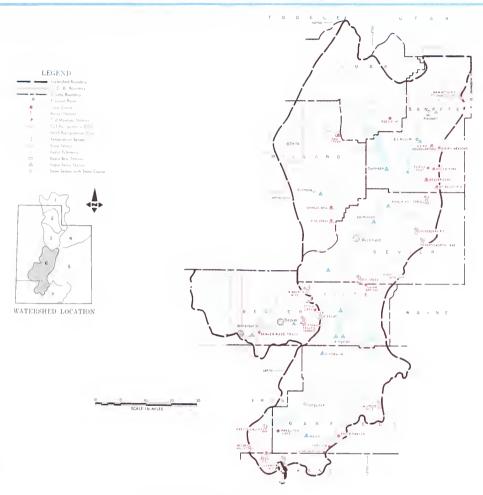




"The Conservation of Water begins with the Snow Survey"

# SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1981

#### THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE TO POOR

SNOW COVER ranges from 22% on the South Fork Sevier to 43% on the Beaver. The East Fork Sevier is 32% and the Lower Sevier is 35% of the February 1 average. Some snow courses on the upper Sevier have less snow water content than February 1, 1977 and others have very little more than that extremely dry year. Lower Sevier and Beaver River high elevation courses are 20 to 30% better than 1977 but medium elevation courses are about 20 to 30% less than 1977.

PRECIPITATION at mountain stations for January ranged from only 20 to 50% of average and is only 44 to 83% for the October-January period.

SOIL MOISTURE is well below average under the snow pack.

RESERVOIR STORAGE is very good. Sevier River storage ranges from 151% (60,400 A.F.) at Piute to 200% (227,600 A.F.) at Sevier Bridge. Otter Creek and Gunnison are reported as full and Minersville is almost full at 190% (22,800 A.F.).

STREAMFLOW FORECASTS have dropped this month and range from 43% of average on 0ak Creek to 150% for the Inflow Sigurd to Gunnison. The Sevier is forecast 68% at Hatch, 91% at Circleville, 91% at Kingston, 75% on the East Fork, 111%

at Piute Dam and 128% at Gunnison. Antimony Creek is forecast 82%, Clear Creek 58%, Salina Creek 60%, Chalk Creek 50%, Chicken Creek 48%, Ephraim Creek 59%, and Pleasant Creek 70% of the April-July average.

Beaver River is forecast 95% at Beaver, North Creeks 86% and Inflow to Minersville 76%.

Water users in this area not depending on reservoir storage are expected to have water shortages by mid summer. Those with good storage water rights are expected to have a good season.

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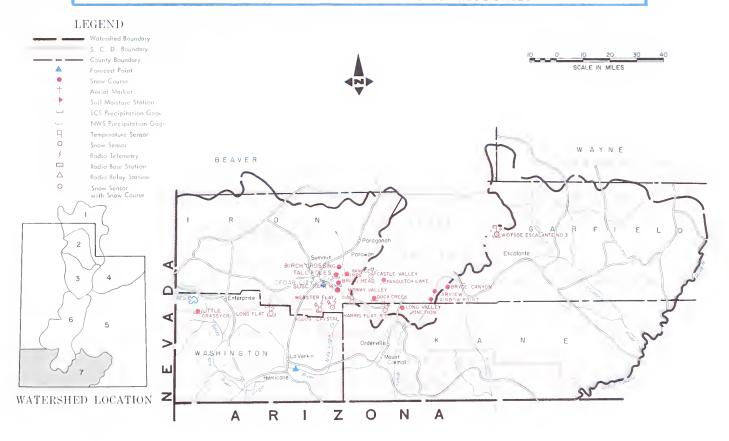
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# EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



#### THE WATER SUPPLY OUTLOOK IS WELL BELOW AVERAGE

SNOW COVER is generally less this year than February 1977, and ranges from no snow on the Little Grassy and Long Flat courses to 22% of average on the Virgin watershed to 26% on Coal Creek to 34% on Parowan Creek.

PRECIPITATION at mountain stations has been very short for the October-January period ranging from 48% of the 15 year average at Webster Flat to 66% at Tall Poles. January precipitation at these same sites was 8% at Webster Flat and 32% at Tall Poles.

SOIL MOISTURE on mountain watersheds is much drier than usual and will soak up some snow melt runoff.

RESERVOIR STORAGE is below average with some reservoirs drawn down for repairs.

STREAMFLOW FORECASTS range from 38% of the April-June average on Santa Clara to 66% for the Virgin. Coal Creek is forecast 63% and the inflow to Lake Powell 65%.

Water users is this area are expected to have water shortages this season unless they have a very good water right or the weather provides a heavy accumulation of snow soon.

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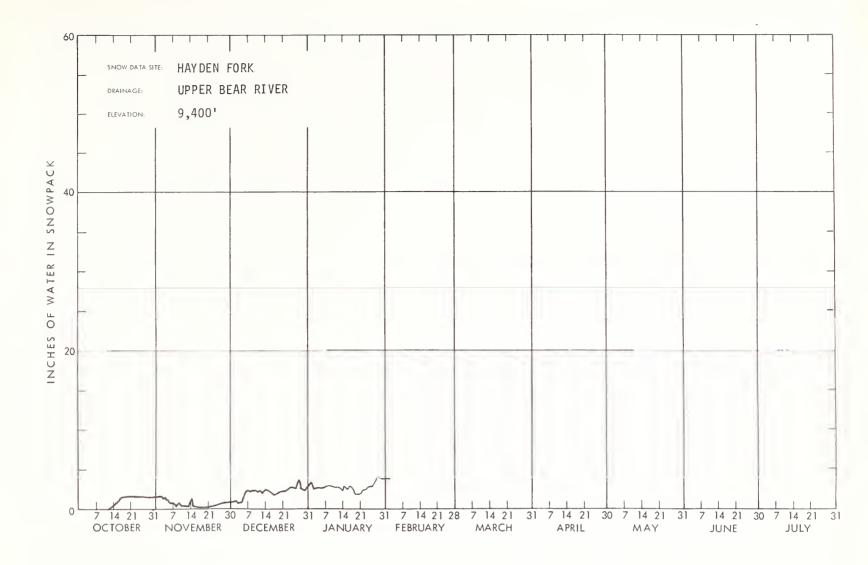
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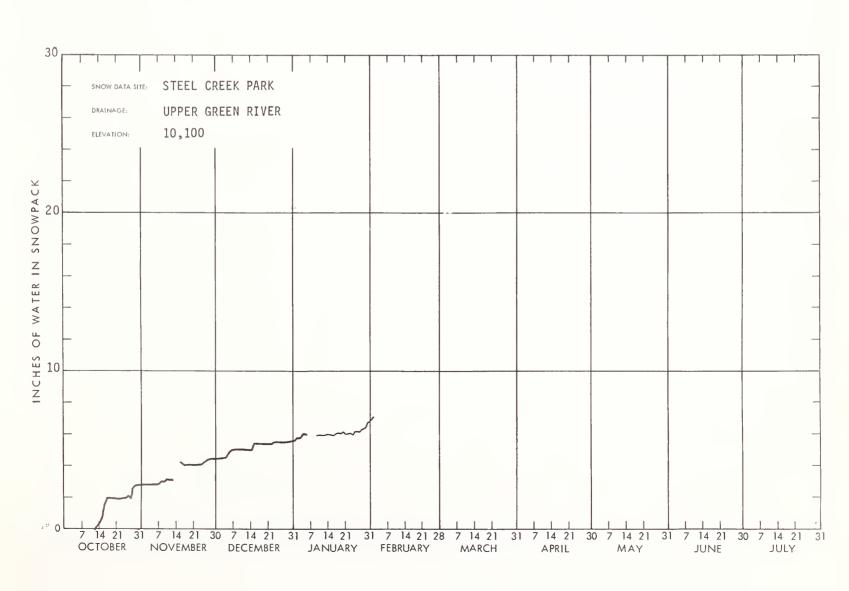
NOW		THIS YEAR		<u> </u>	ECORD	PRECIPI	TATION	(Inches)		PPROX. OCT I	TO OATS
ORAINAGE BASIN and/or SNOW COURSE  NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inchas)	Water Cont	Avarege †	Data of Reading	Month's Precipitation	Avarage +	This Year	Average +	Percent o Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch CCC Camps Hayden Fork Monte Cristo R.S. Salt River Summit Stillwater Camp Lily Lake	1/29 1/29 2/2 1/26 1/29 2/2 2/2	8 25 26 21 32 21 21	1.9 3.4 5.3 5.0 5.2 3.3 3.3	5.9 8.2 13.3 19.8 10.2 9.8	8.6 9.6b 16.3 11.0 7.2	1/29 2/2 1/26 1/29 2/2	0.42 2.67 0.70 1.50 1.04	 6.10b 4.18	5.73 9.37 7.10	 17.12 11.35	 41
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake Cub River R.S. Emigrant Summit Franklin Basin Garden City, Summit Klondike Narrows Little Bear (lower) Little Bear (upper) Slug Creek Divide Steep Hollow #1 Steep Hollow #2 Tony Grove Lake Tony Grove R.S. Willow Flat	1/26 1/26 2/2 1/26 1/26 1/27 1/26 1/26 1/29 1/26 1/26 1/27 1/26 1/26	23 12 39 20 18 16 14 16 21 34 24 31 12	5.3 2.8 7.1 5.2 3.9 4.0 3.2 3.3 4.4 8.2 6.0 7.0 2.5 3.8	14.4 6.2 16.6 18.1 12.8 16.3 7.7 8.2 13.2 25.2 19.3 26.0 9.4 11.6	13.1b 6.4 17.0 17.8a 11.6 13.0 6.2 8.7b 11.5 23.3 17.1 21.5b 8.6 10.9	1/26 1/27 1/26 1/26	0.66 0.91	4.27  5.00b	 5.50 4.75 6.58	12.33   15.14	  43
OGDEN RIVER											
Beaver Creek-Skunk Creek Ben Lomond Peak Ben Lomond Trail Causey Dam Dry Bread Pond Sagebrush Flat	1/26 1/26 1/26 1/26 1/26	9 29 18 12 1	2.2 7.1 3.7 3.6 0.2	10.8 27.3 13.8 15.9 6.0	8.3 22.4b 12.4b 12.2 4.1	1/26 1/26 1/26	0.92 0.48	7.56b 2.56b		20.51b 9.49 9.49	33 39 36
WEBER RIVER											
Beaver Creek R.S. Shalk Creek #1 Chalk Creek #2 Chalk Creek #3 Farmington Canyon (lower) Farmington G.S. Horse Ridge Kilfoil Creek Lost Creek Reservoir Park City Summit Parley's Canyon Summit Redden Mine (lower) Sargeant Lakes (A) Smith & Morehouse	2/2 1/29 1/29 1/29 1/26 1/26 1/26 1/26 1/26 2/2 1/29 1/29 1/29	21 37 26 11 23 24 18 17 36 24 25 6 21	3.9 8.0 5.8 3.0 5.6 6.3 4.4 3.7 8.6 4.9 5.5 1.3 4.3	8.6 18.7 12.0 7.5 14.1 18.6 17.1 13.6	5.9 13.6a 9.7 5.4 14.0b 19.5b 15.0a  12.7  8.9	1/29 1/26 1/26 1/26 1/26 1/29 1/29	0.68 0.28 0.91 0.83 0.37 0.93 1.18	 5.22b   4.31  3.55	6.45 6.41 7.92 4.73 7.90 7.60 7.53 8.60	9.44b 18.36   14.80  11.90	68 35   51
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide Camp Altamont Clear Creek Ridge #1 Clear Creek Ridge #2 Clear Creek Ridge #3 Dutchman R.S. Hobble Creek Summit Payson R.S. Soapstone R.S. South Fork R.S. Timpanogos Cave Camp Timpanogos Divide	2/2 1/30 1/28 1/28 1/28 1/29 1/29 1/28 2/2 1/29	28 40 19 20 8 34 21 16 23 12	5.4 9.2 3.9 4.0 2.2 8.0 3.5 4.1 3.8 3.3	12.0 14.4 17.3 12.9 7.4 17.6 10.9 15.2 10.8 4.3	8.9b 10.2 11.2b 9.6b 5.5 12.9 9.6 12.2 8.6 4.5	1/28	0.56	 3.30 3.39	5.91 6.58 7.56	10.87b 17.60b 14.47 12.04 11.16	54 45 63
Timpanogos Divide Trial Lake	1/30 2/2	51 48	11.2	23.2	16.9 15.6	1/30 2/2	1.92a 3.51	4.97 4.71	11.62	17.43	67 69

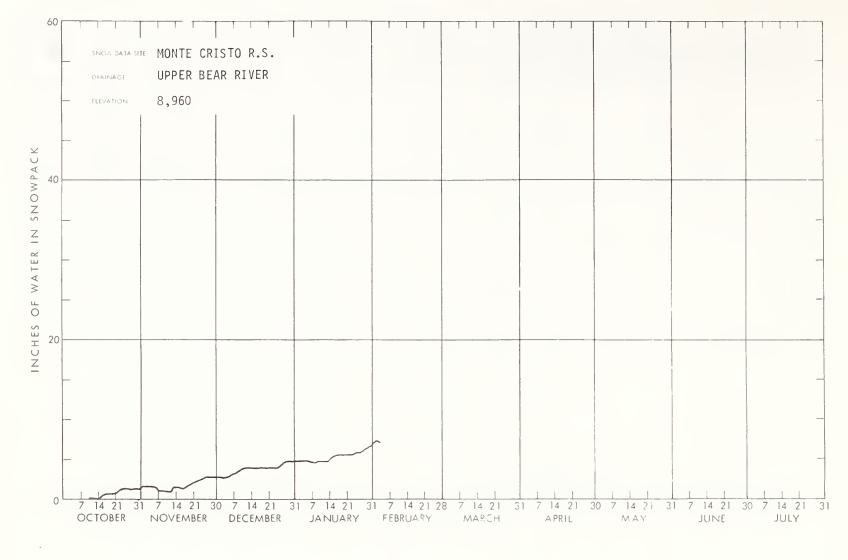
NOW		THIS YEAR		PAST R		PRECIPI	TATION	(Inches)		PROX. OCT I	TO DATE
DRAINAGE BASIN and/or SNOW COURSE NAME	Dete of Survey	Snow Depth (Inches)	Water Content (Inches)	Weter Conte	nt (inches) Average †	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin Lamb's Canyon #2 Middle Canyon Mill Creek Mill D. South Fork Mt. Dell Dam Rock Basin-Settelement Canyo Silver Lake (Brighton) Snow Bird (Gad Valley)	1/29 1/25 1/28 1/30	24 17 19 27	4.4 3.7 4.5 4.9	10.4 7.7 10.7 10.5	11.1 9.2  13.2	1/29 1/25	0.84 0.30	2.71b 2.16 5.36	5.71 7.40	9.74 9.73 18.07	 76
Vernon Creek	1/25	12	2.0	8.0	7.5b	1/25	0.60		3.40		
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek Bryce Canyon Castle Valley Duck Creek R.S. Farview Harris Flat	1/26 1/29 1/25 1/25 1/29 1/25	15 0 13 0 4	2.6 0.0 2.5 0.0 0.7 0.0	10.8 3.7 10.3 14.5 7.9 9.3	7.8 3.0 7.5a 8.0 5.5 5.3	1/26 1/25 1/25	0.49 0.45 0.40	 2.87	4.94 4.99 4.75	 10.90	  44
Kimberly Mine Midway Valley Panguitch Lake Rainbow Point Squaw Springs	1/26 1/25 1/25 1/25 1/29 1/26	23 17 0 1	4.4 3.8 0.0 - 0.2 0.5-	14.1 18.2 4.0- 7.6 7.6-	9.5b 12.7  4.6	1/26	0.84	3.3b 	7.05 2.87	11.20	63 
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams Farmsworth Lake G.B.R.C. Headquarters G.B.R.C. Majors G.B.R.C. Meadows G.B.R.C. Oaks Gooseberry R.S. Gooseberry Reservoir Mammoth-Cottonwood Creek	1/27 1/26 1/27 1/27 1/26 1/28	10 25 18 24 16	2.5 5.7 3.6 5.7 2.8	7.8 14.1 11.5 16.6 9.1 16.2	9.3b 11.8 9.8 13.5 7.4	1/27 1/26 1/27 2/2 1/27 2/2 1/26 1/28	0.58 0.64 0.64 0.65 1.24 1.03 0.49 1.96	3.09 2.98 1.42 3.84 2.02 2.45b 3.71	5.85 7.47 7.61 4.60 8.70 5.68 6.18 6.40	11.64 11.52 5.65 13.98 7.82 7.49b 12.09	 64 66 81 62 73 83 53
Middle Fork Mt. Baldy R.S. Oak Creek Pickle Keg Springs Pine Creek Ree's Flat Shingle Mill Thistle Flat	1/27 2/2 1/27 1/26 1/27 2/2	26 26 15 14 17 17	5.8 3.8 2.9 3.6 4.0 3.0	16.4  12.3 12.5 10.1	 10.5 10.6  5.7	1/27 2/2 1/26 1/27 2/2	0.55	   2.10b	5.84 6.60 2.75 4.91 6.70	  10.25	   65
BEAVER RIVER						1					
Beaver Canyon Power House Beaver Race Track Big Flat Merchant's Valley (upper) Otter Lake	1/30 1/26 1/26 1/26	4 25 17 18	0.2 5.0 2.8 2.9	0.5 13.8 9.8 10.4	10.0 7.5b 7.5	1/26	0.86	1.23	5.94 5.24	5.45 9.93 9.18b	60 57
PAROWAN CREEK											
Birch Crossing Brian Head Tall Poles Yankee Reservoir	1/30 1/25 1/30 1/25	21 22 8.0	0.3 4.5 3.8 1.0	9.0 15.5 12.2 7.6	4.3b 12.4b 8.5b	1/30 1/25	0.70 0.03	2.20ь	6.25	9.48b	66 
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek Long Flat	1/25 1/25	0	0.0	7.3 5.7	4.7	1/25	0.14				
COAL CREEK											
Cedar City Golf Course SUSC Ranch	1/30 1/30	5 16	0.2	0.5 7.3	5.8b						

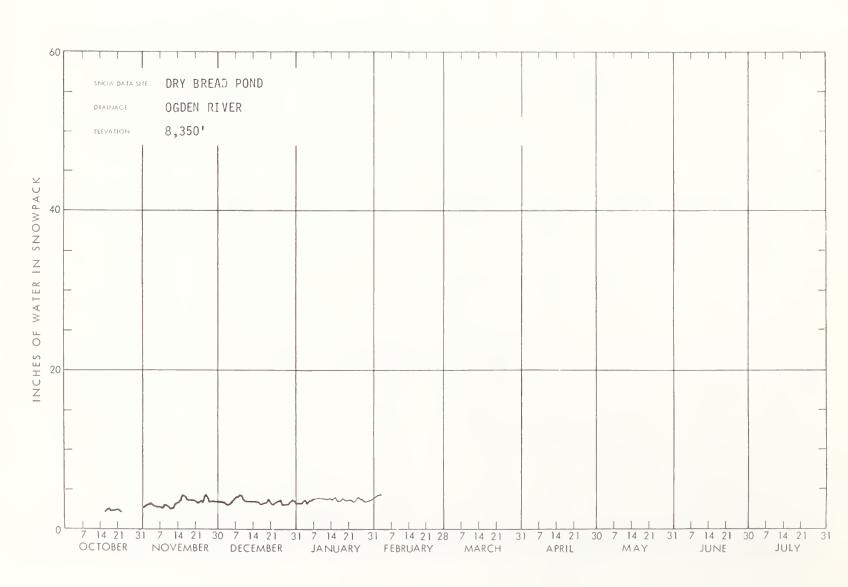
NOW	<u></u>	THIS YEAR		PAST R	ECORD	PRECIPI	RENT INFORMA	(Inches)	FROM AP	PROX. OCT	TO DATE
DRAINAGE BASIN and/or SNOW COURSE  NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
		1									
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	1/27	24	5.5	, ,			1 44		6 00		
Black's Fork G.SEast Fork Black's Fork Junction	2/2	16 16	3.0	7.5 9.6		2/2 2/2	1.44		6.00 5.79		
Buck Pasture (A) Burnt Creek	1/27 1/29	27 8	5.1 1.6	5.7		1/29	0.05	1.60b	4.60	6.09b	76
Dutch John Junction Grizzly Ridge	1/29	6	1.6	11.5		1/29	0.40	2.44b	5.25	8.75b	60
Henry's Fork Hewinta G.S.	1/27 2/2	25 17	4.2 3.0	9.1		2/2	1.35		6.16		
Hickerson Park King's Cabin (upper)	2/3 2/3	17 22	4.1 4.7	7.5 10.3	7.5c	2/3 2/3	0.97 2.03		5.22		
Reynolds Park (A) Spirit Lake	1/27 2/3	24 36	5.5 7.8	10.0		2/3	2.66		9.22		
Steel Creek Park Trout Creek	2/2 2/3	41 26	7.1 5.1	13.0 9.5		2/2 2/3	1.68a 1.96		6.37a 5.31a		
DUCHESNE RIVER	2,0	20	3,1			273	1,30		3.314		
Atwood Lake (A)	2/4	27	5.1	4.5.5	0.5	0.10			0.14		
Brown Duck Ridge Chepeta-Whiterocks	2/3 2/3	45 39	7.9 7.4	16.5	9.5	2/3	1.91		8.14		
Currant Creek Daniels-Strawberry Summit	1/28 1/28	2 14	0.3 2.4	11.8 14.1	7.3b 10.0	2/2	0.44	3.59	5.77	12.03	48
East Portal Five Points Lake (A)	1/28 1/27	14 21	2.5 3.8	9.0	7.4	1/28 1/27	0.59	3.34	5.60 4.50a	11.14	50
Indian Canyon Jackson Park	1/28 2/3	12 34	2.4 6.5	11.1	8.0 	1/28 2/3	0.18 2.40	2.41	4.26 5.52	8.69 	49
Lakefork Basin (A) Lakefork Mountain #1	1/27 2/3	27 16	4.9 4.8	10.4	6.8	2/3	2.04			8.68	
Lakefork Mountain #3 Lightning Lake (A)	2/3 2/4	15 48	3.0 11.3	9.4							
Mosby Mountain Paradise Park	2/4 2/3	21 27	3.8	10.5 12.5	6.3 8.3	2/4 2/3	1.37 2.65	2.28b 2.39b	5.83 8.60	8.87 9.36	66 92
Rock Creek Ranch Strawberry Divide	2/3 1/28	13 19	2.5 4.0	9.5 15.6	12.4	2/4	1.31a		0.00	3,00	
PRICE RIVER	1, -3			1000							
Dry Valley Divide Alternate	1/28	2	0.5	9.9	7.2						
Mud Creek White River #1	1/27 1/28	10 12	1.3 2.5	11.8 11.6	8.8 8.6	1/27 1/28	0.41 0.27	2.70 	3.45 4.75	9.20 	38
White River #3	1/28	1	0.2	8.2							
SAN RAFAEL RIVER											
Buck Flat Huntington-Horseshoe	1/27 1/27	11 20	1.6 5.4	12.8 16.1	10.2 14.8b		0.48		4.70	11.296	
Orange Olsen Red Pine Ridge	1/27 1/27	0 8	0.0 1.4	5.9 12.0	 10.7	1/27 1/27	0.10 0.72		1.90 5.72	5.22b 12.77	36 45
Seeley Creek R.S. Stuart R.S.	1/27 1/27	11 1	2.2 0.2	11.4 8.1	9.3b 	1/27 1/27	0.62a 0.25		3.85a 2.60		
Upper Joe's Valley Wrigley Creek	1/27 1/27	3 0.7	0.5 0.9	8.5 10.6	6.6 6.4						
MUDDY RIVER	·										
Black's Fork Dill's Camp	1/27 1/27	9	1.4	10.6 10.5	7.7b 7.0b	1/27	0.31		4.28		
FREMONT RIVER	1/-/			10.5	7.05	1,2,	3.31		1,20		
Black's Flat-U.M. Creek	1/26	11	1.7	9.4	6.9	1/26	0.39		3.33		
Fish Lake Johnson Valley	1/25 1/26	4 1	0.7 0.1	5.7 6.0	5.2 4.3	1/26	0.21	1.33b		6.35	41
·	·										

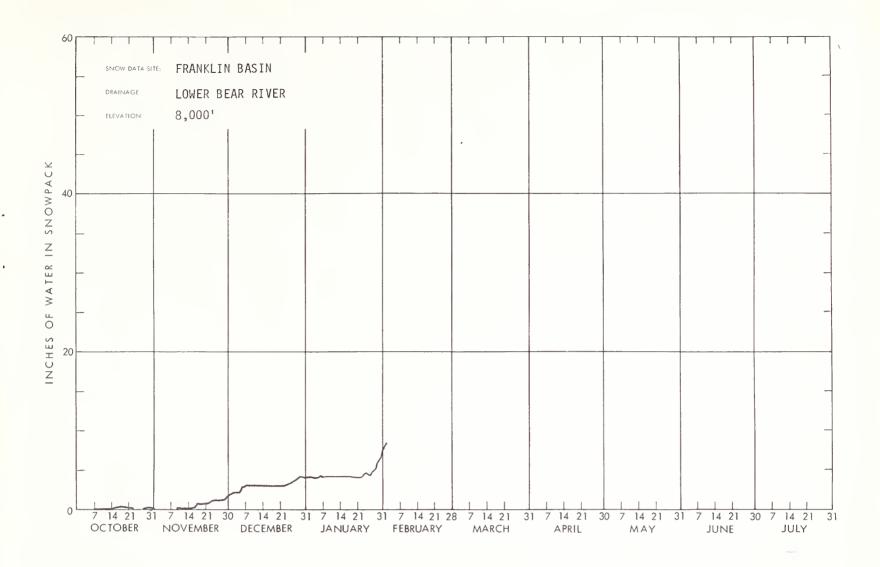
<u>0W</u>		THIS YEAR		PAST R			TATION	(Inches)		PPROX. OCT	TO DATE
DRAINAGE BASIN and/or SNOW COURSE	Dete of Survey	Snow Depth (Inches)	Water Content (Inchas)	Water Conte	Average †	Dete of Reading	Month's Precipitation	Averege +	This Year	Average +	Percent of Average
NAME SOUTHEASTERN UTAH DRAINAGES	I						22.51.21.01				
Buckboard Flat Camp Jackson	1/27	9	2.1	12.7 12.6	7.le 7.3e	1/27	0.73		2.90		
LaSal Mountain (lower) LaSal Mountain (upper) Monticello City Park	1/26 1/26 1/27	16 29 0	2.9 7.0 0.0	8.1 12.2 5.9	5.4e 8.6e	1/26	0.89		6.71		
ESCALANTE RIVER											
Widtsoe-Escalante #3	1/25	15	2.9	9.4	6.4	1/25	0.20	1.58	4.67	7.59	62
7IRGIN RIVER											
Kolob-Crystal Long Valley Junction Webster Flat Midway Valley	1/25 1/25 1/25 1/25	13 0 11 17	2.3 0.0 2.4 3.8	18.5 8.5 16.1 18.2	13.3b 3.2 10.2 12.7	1/25	0.27	3.48	5.61	11.62	48
<ul> <li>a - Partly Estimated</li> <li>b - Average of past record</li> <li>+ - 1963-77 15 year average</li> <li>(A) - Aerial Marker Reading</li> </ul>	in averag	e period	- less	than 15	years			<u> </u>			
A) - Aeriai marker keading											
		1									
						11					

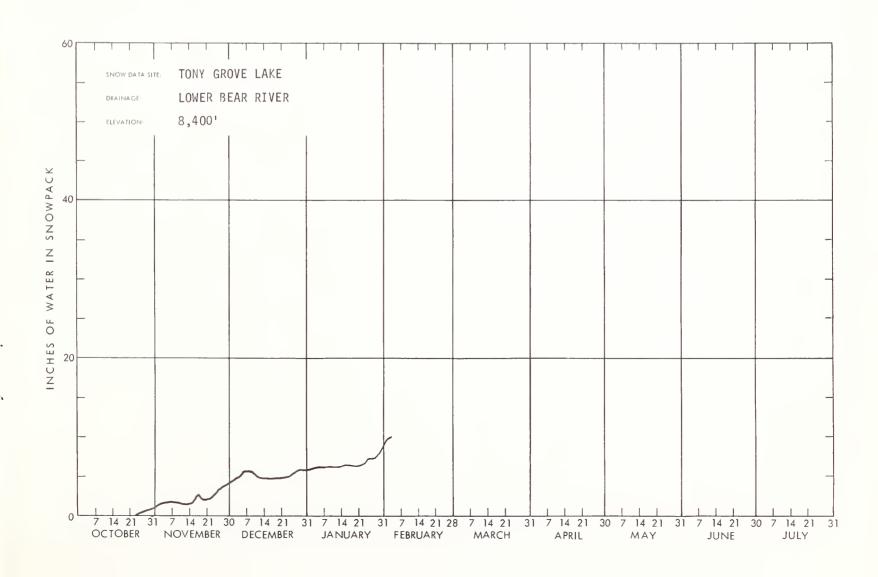


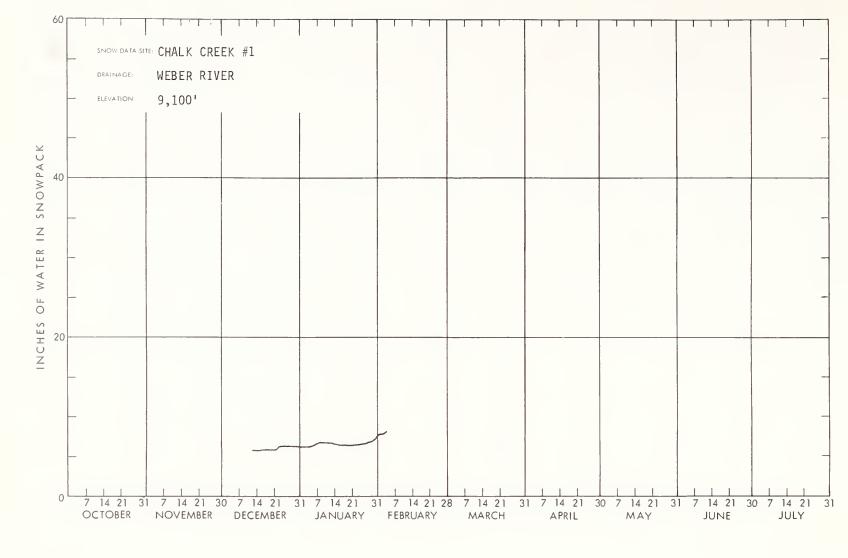


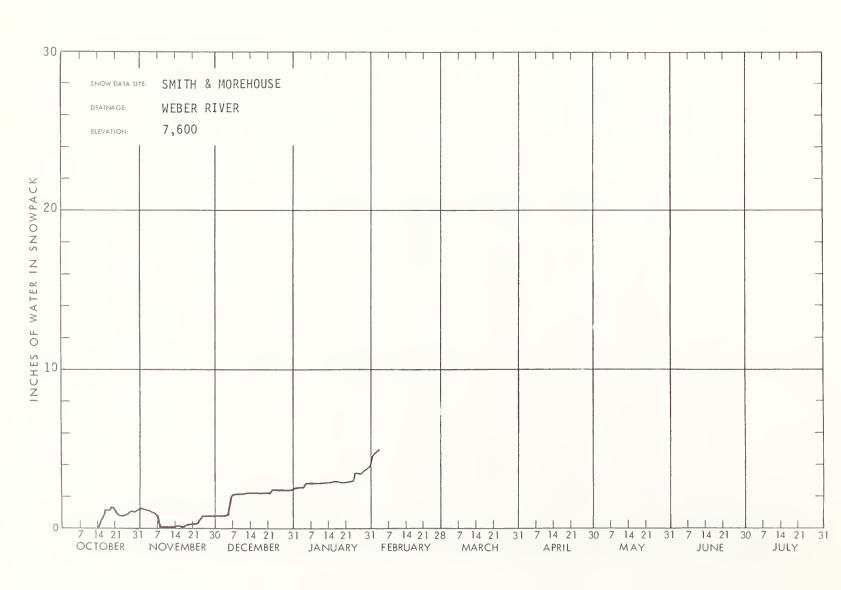


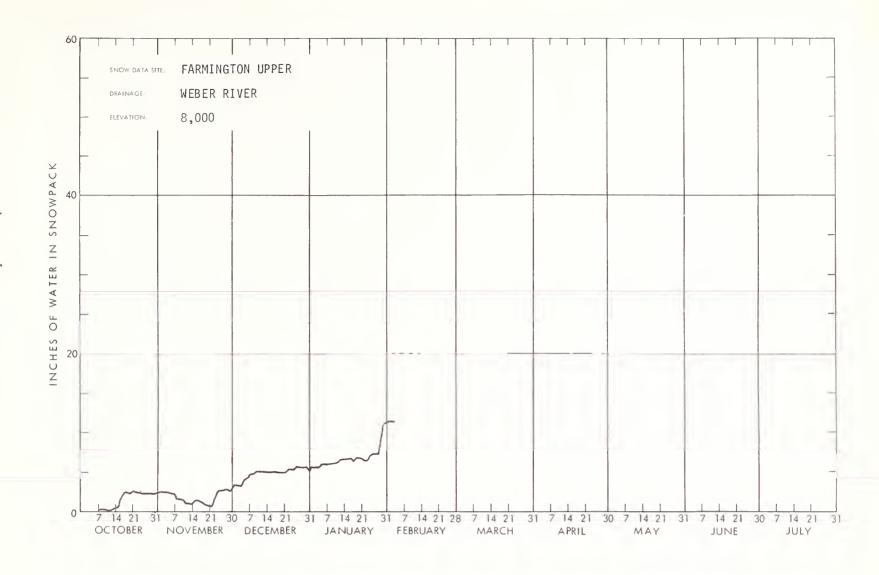


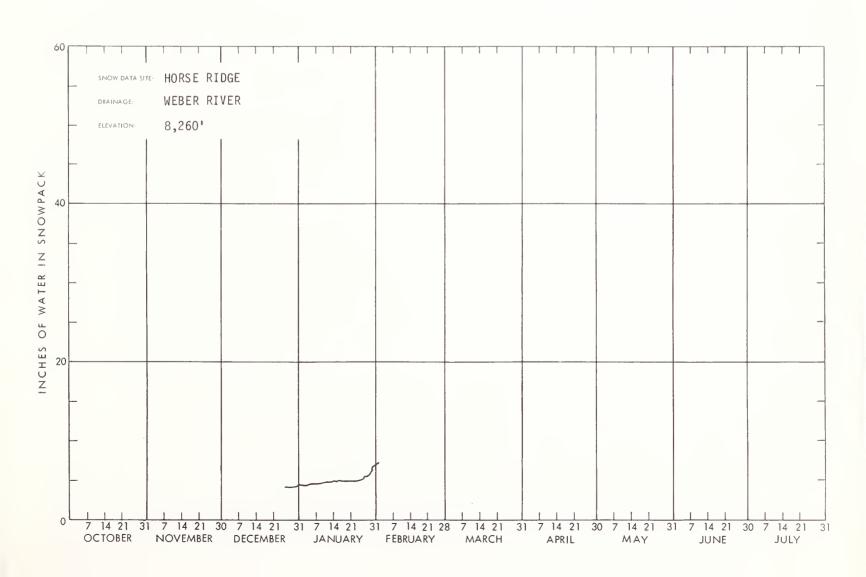


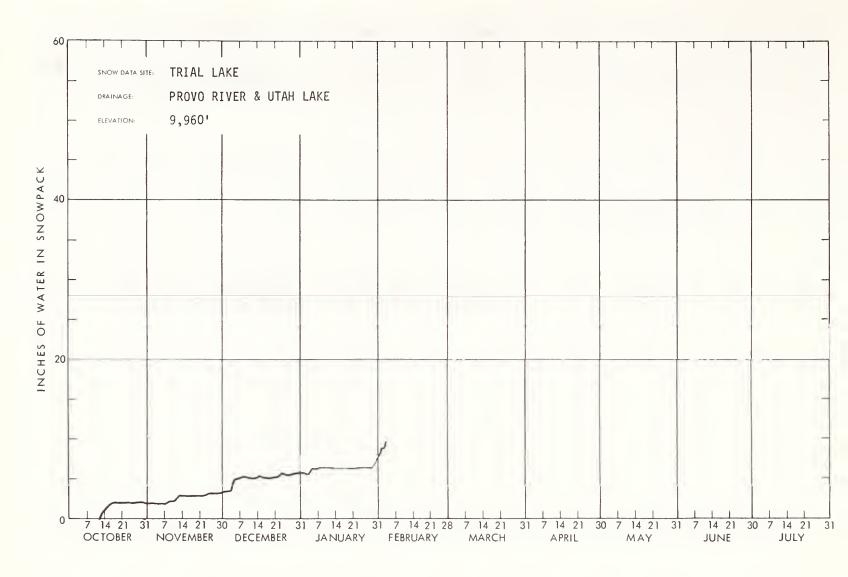


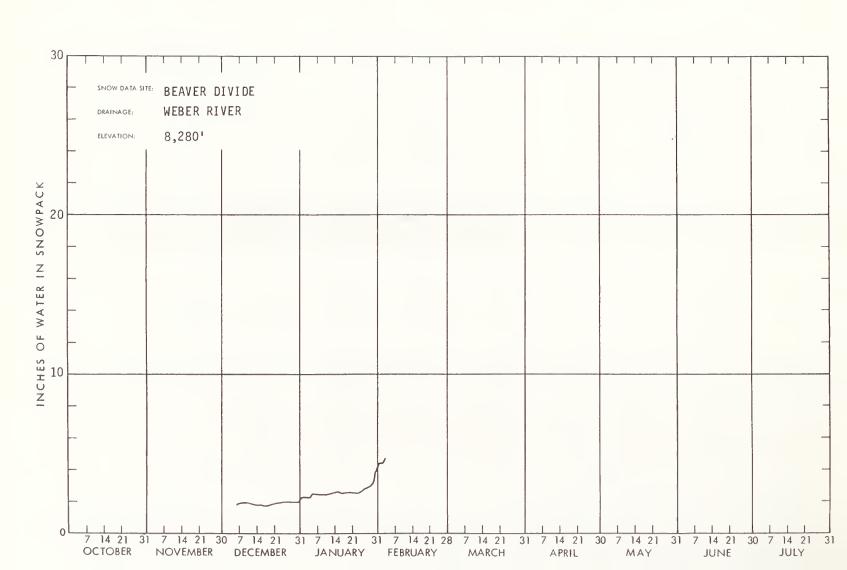


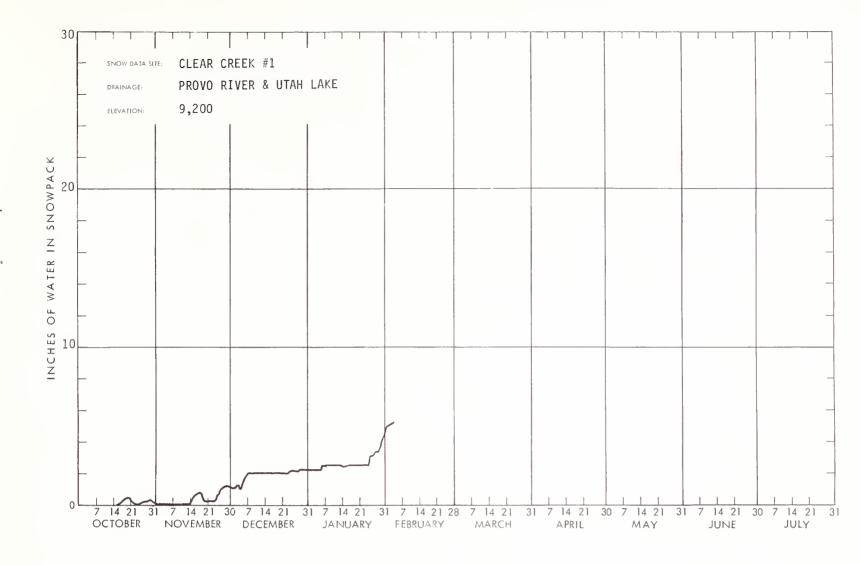


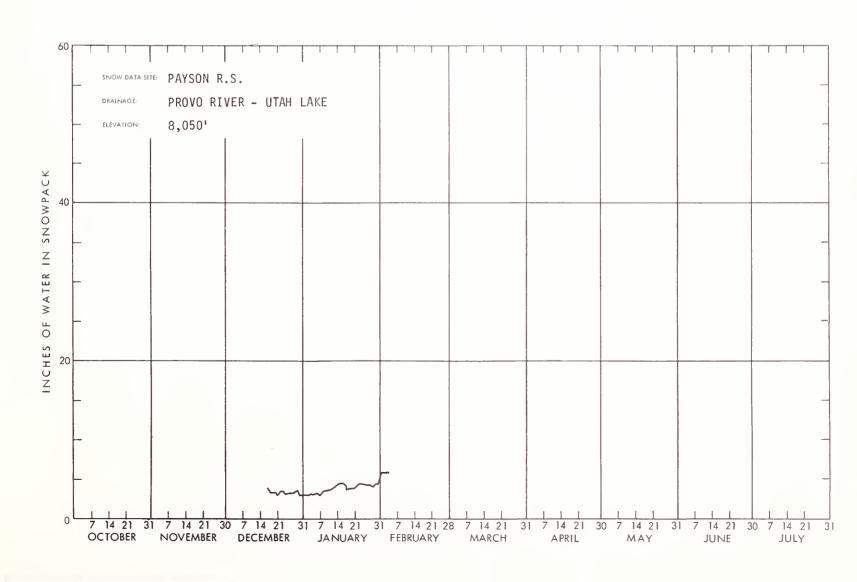




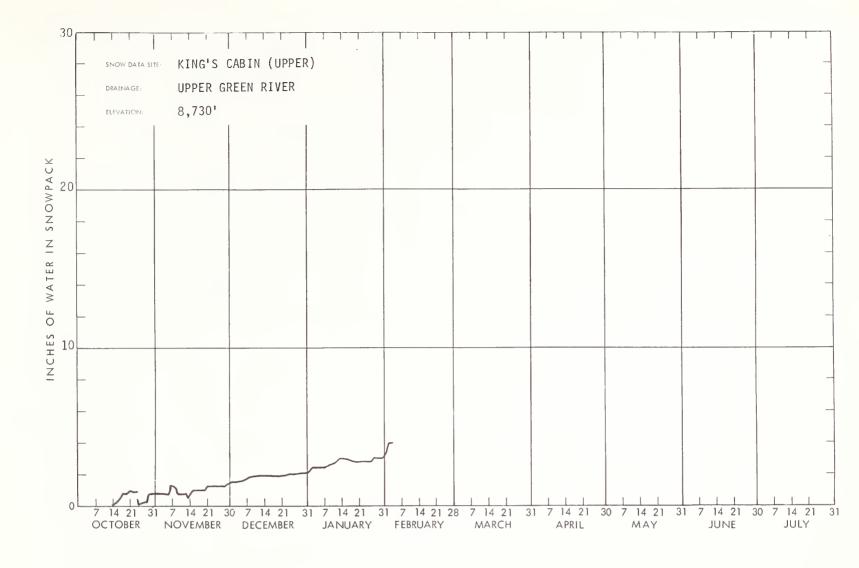




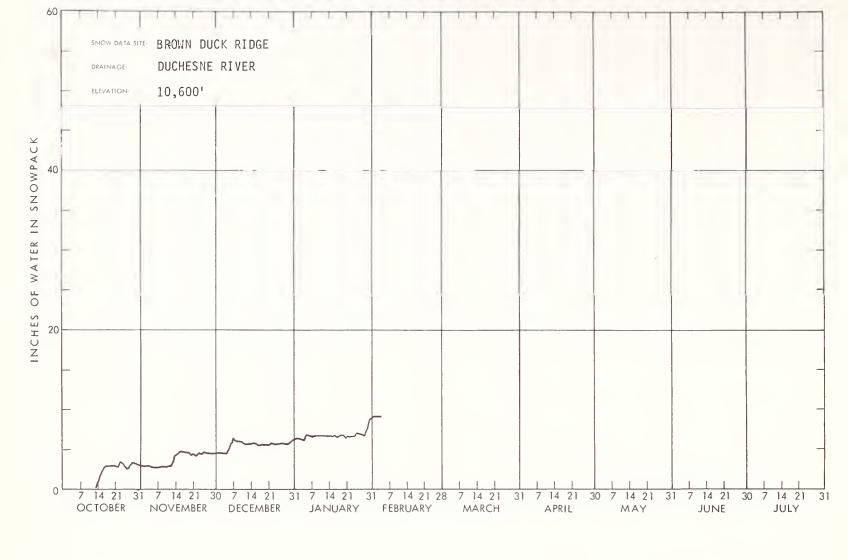


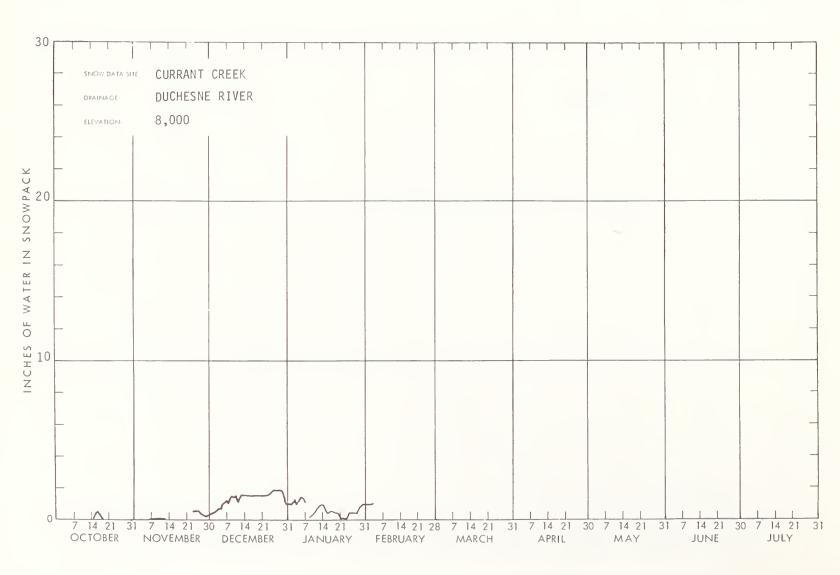


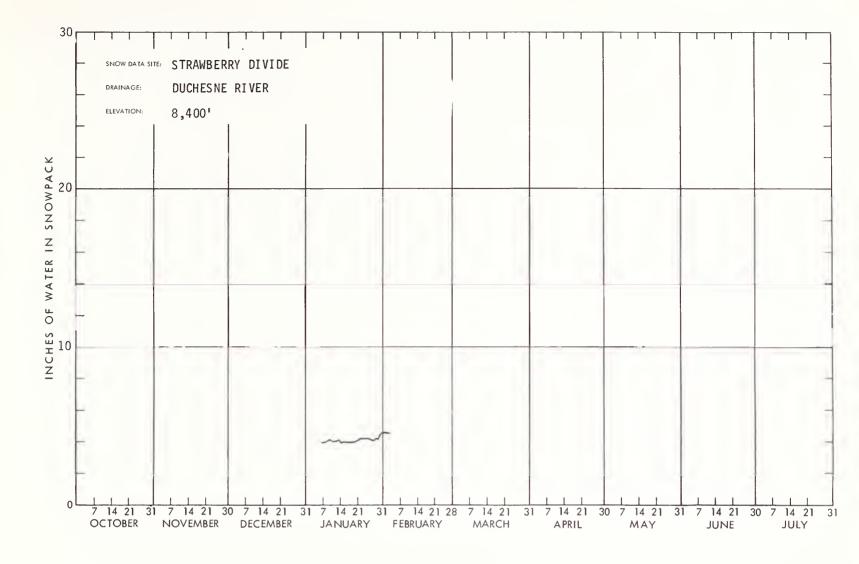


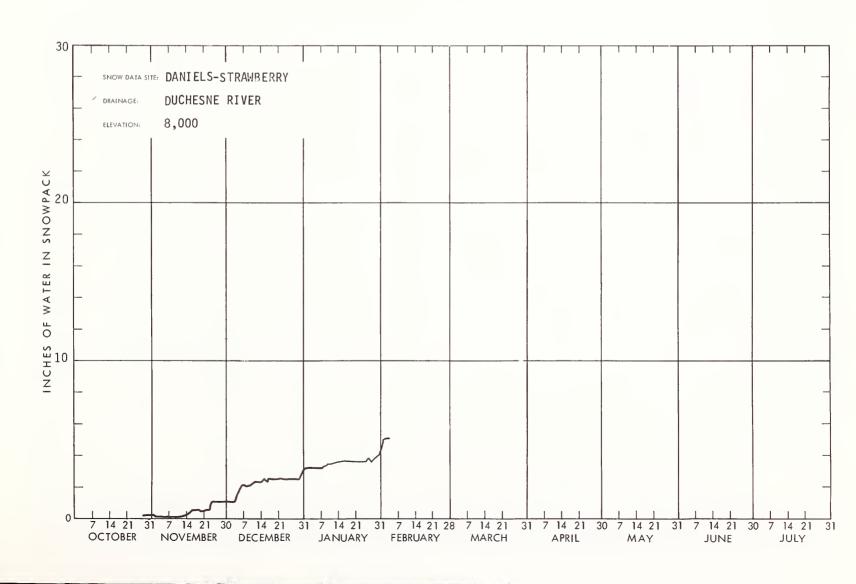


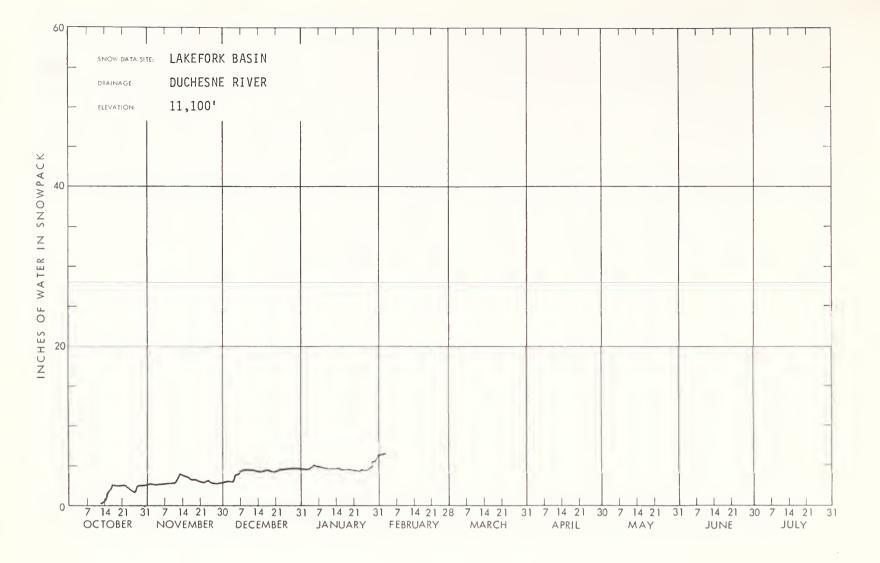


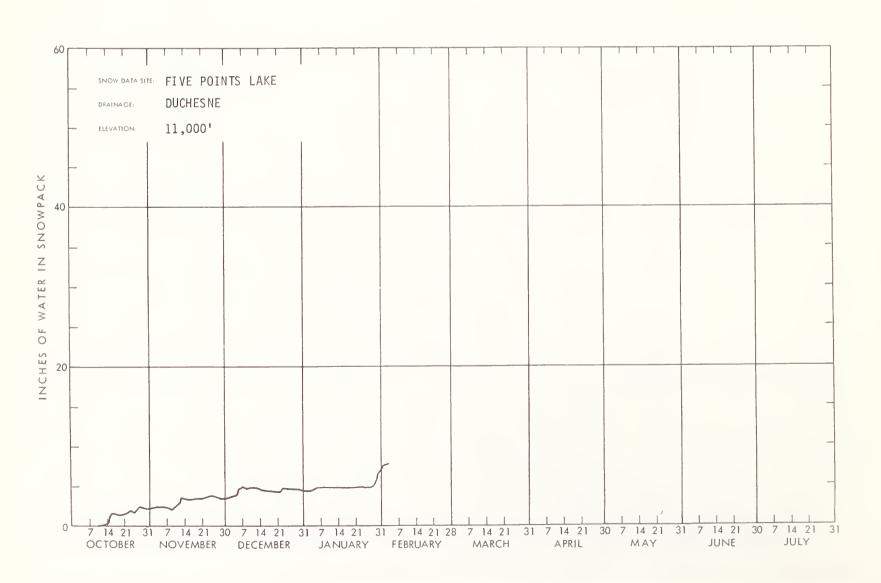


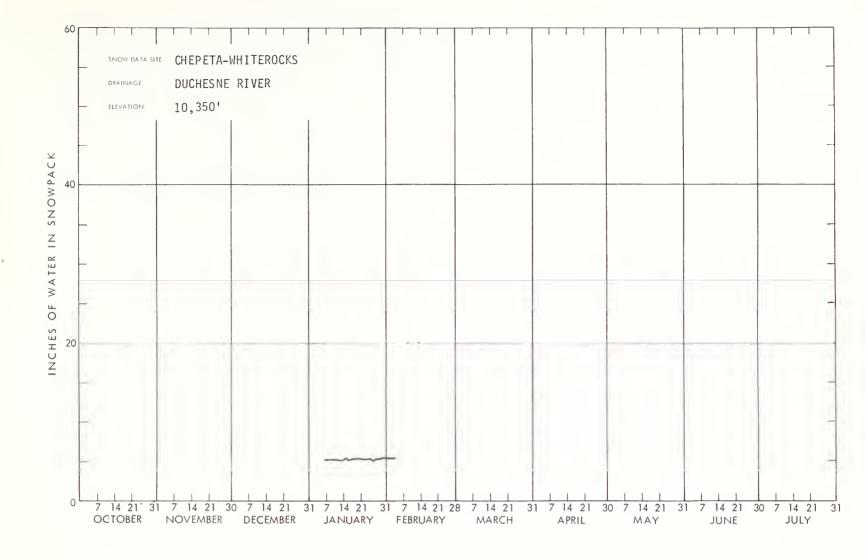


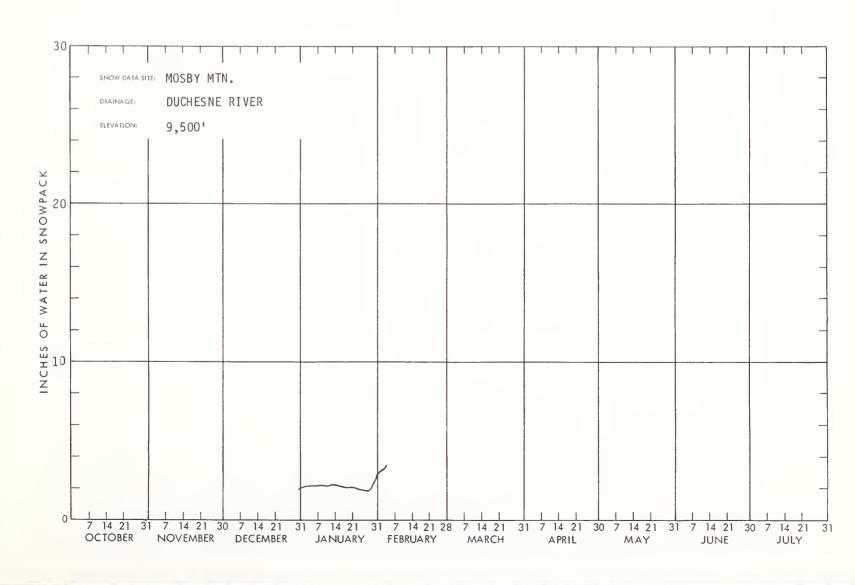


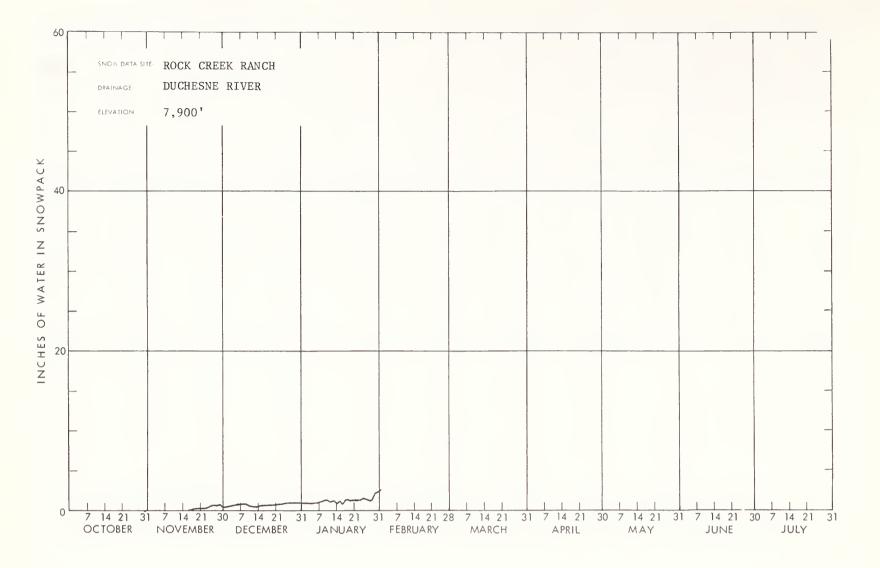


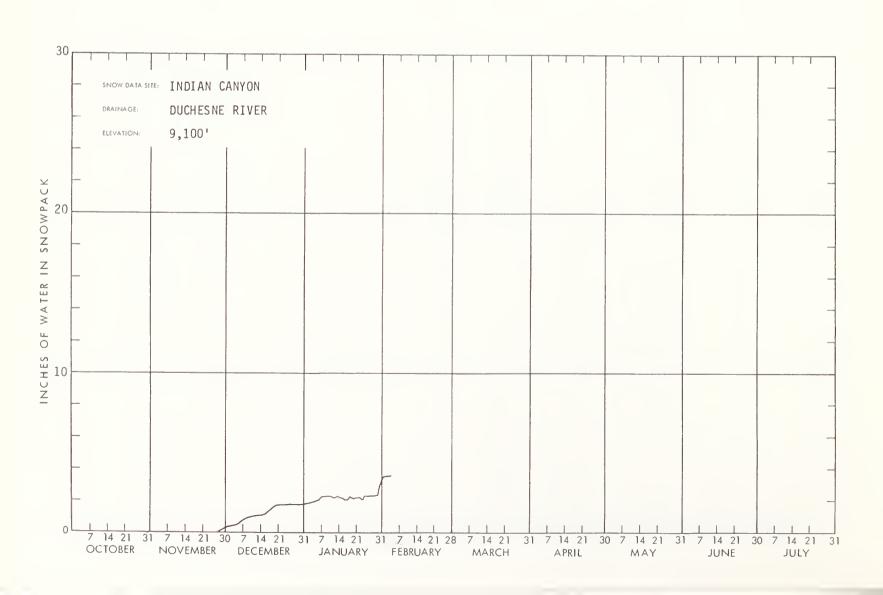


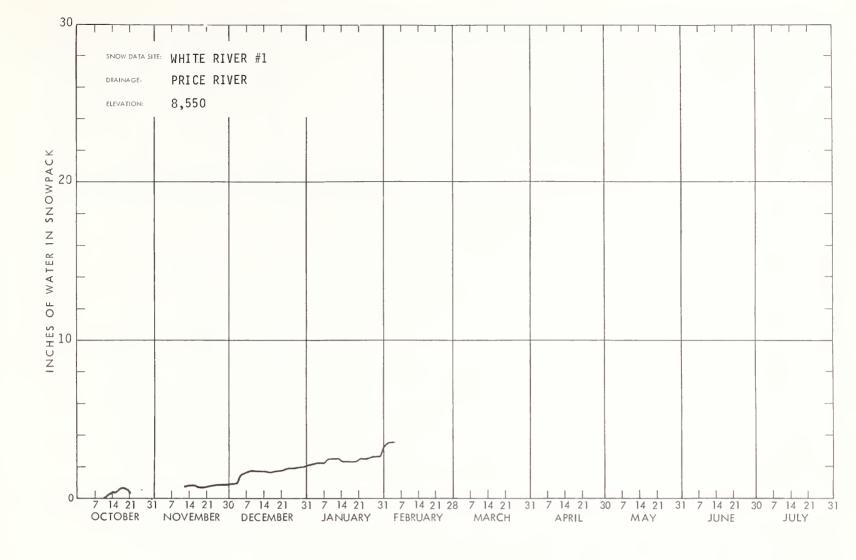


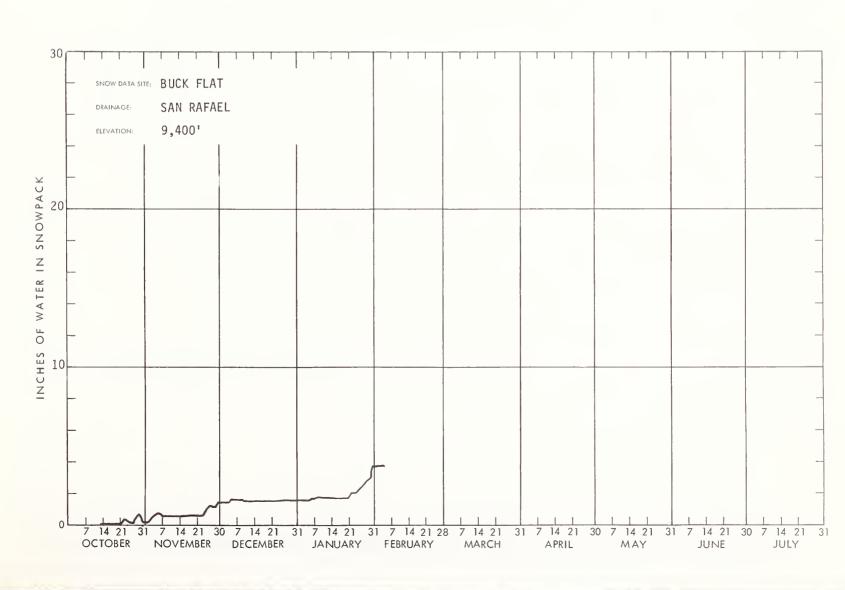


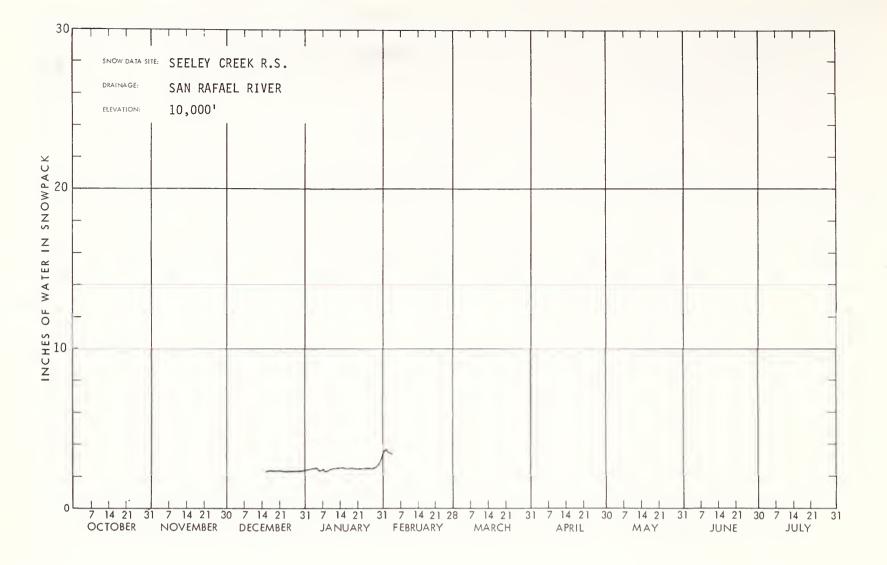


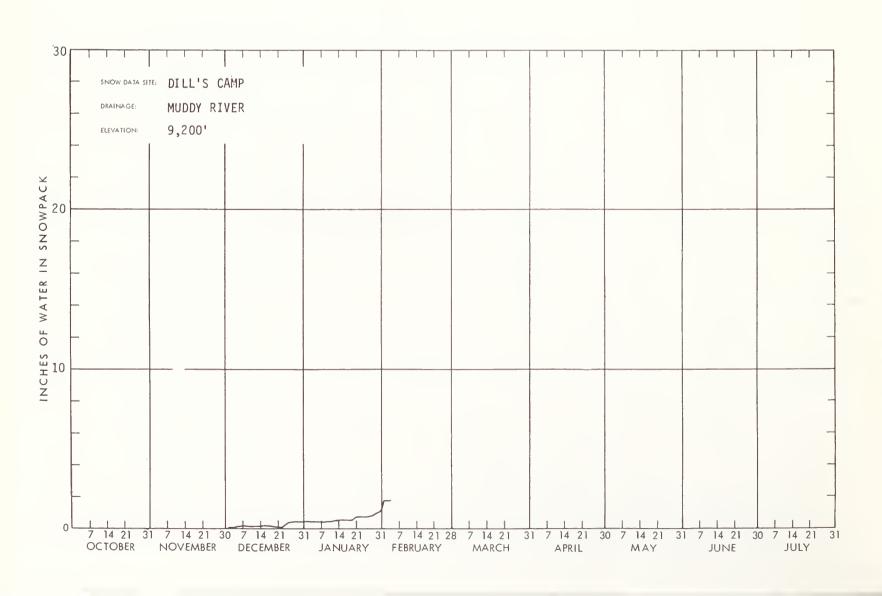


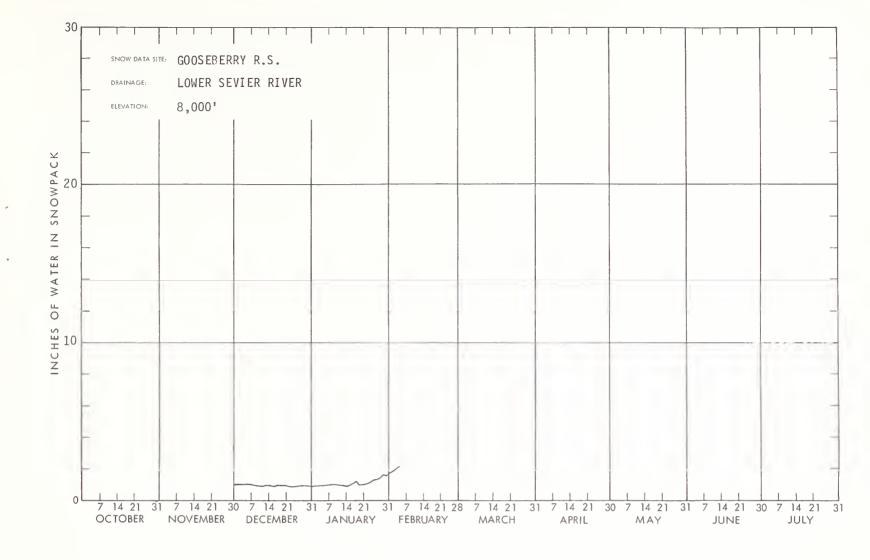


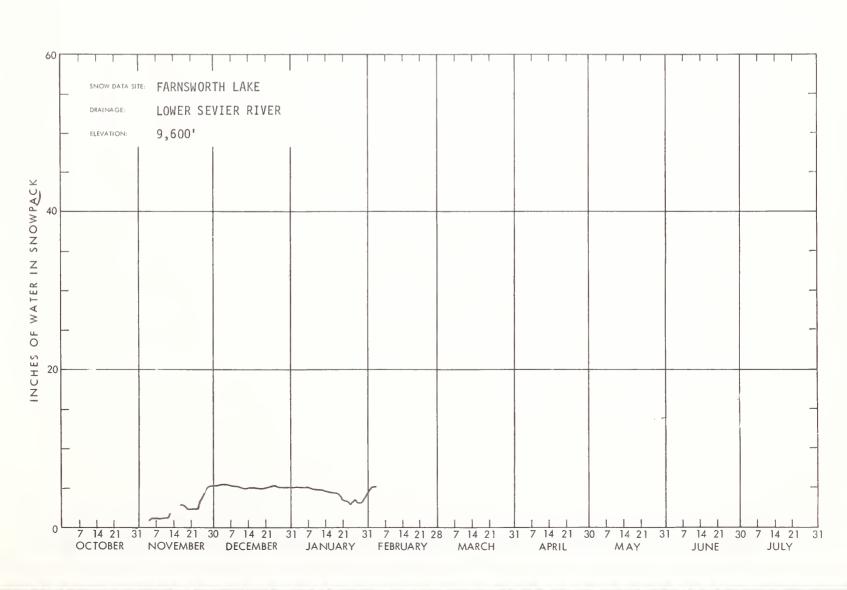


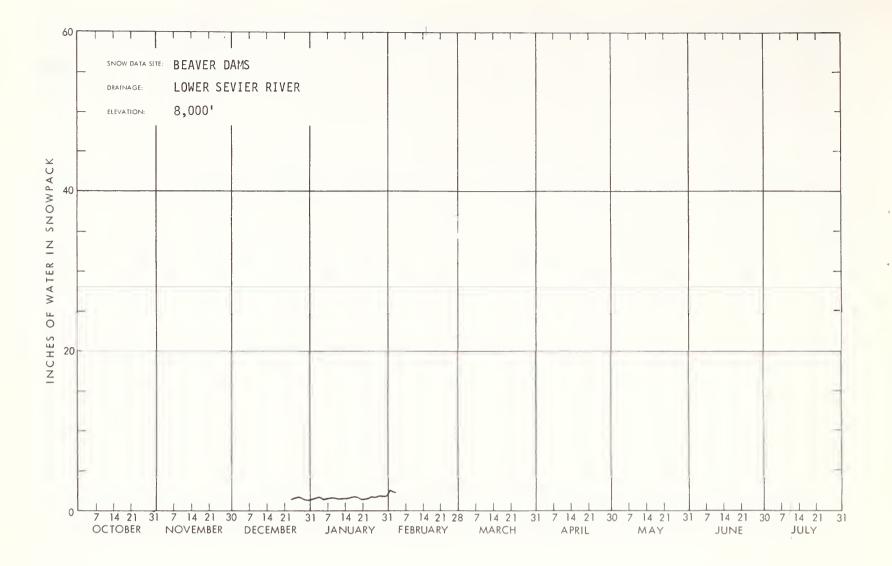


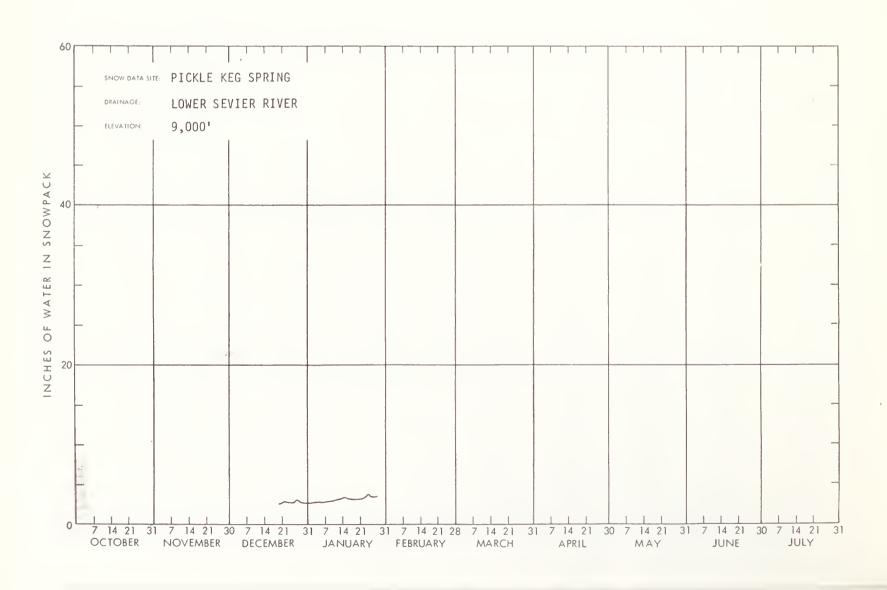


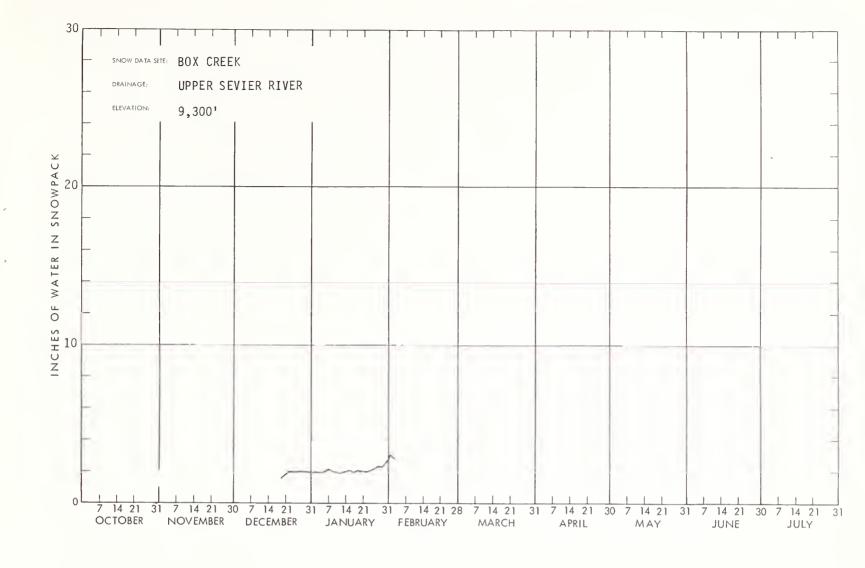


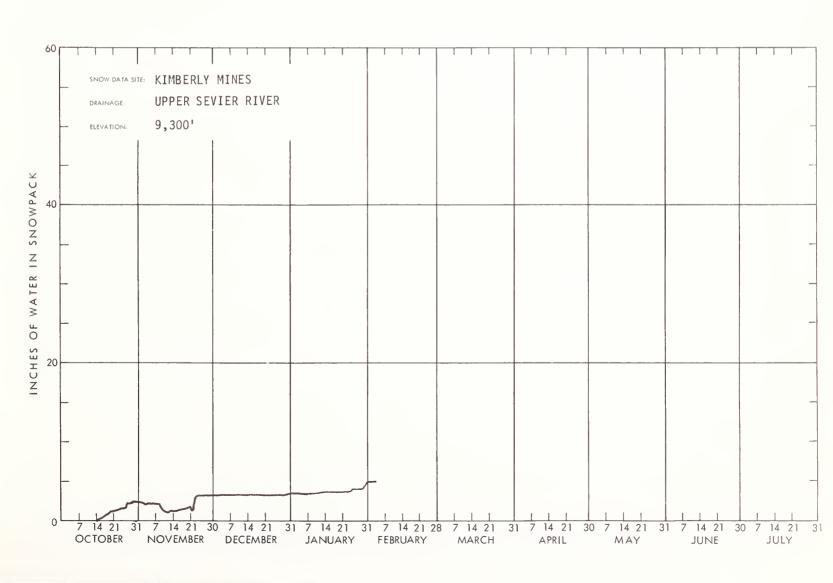


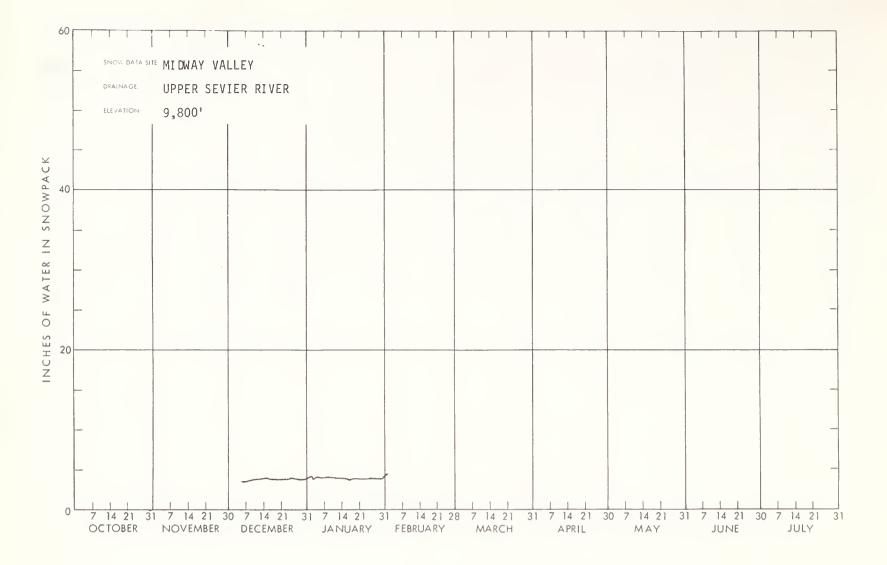


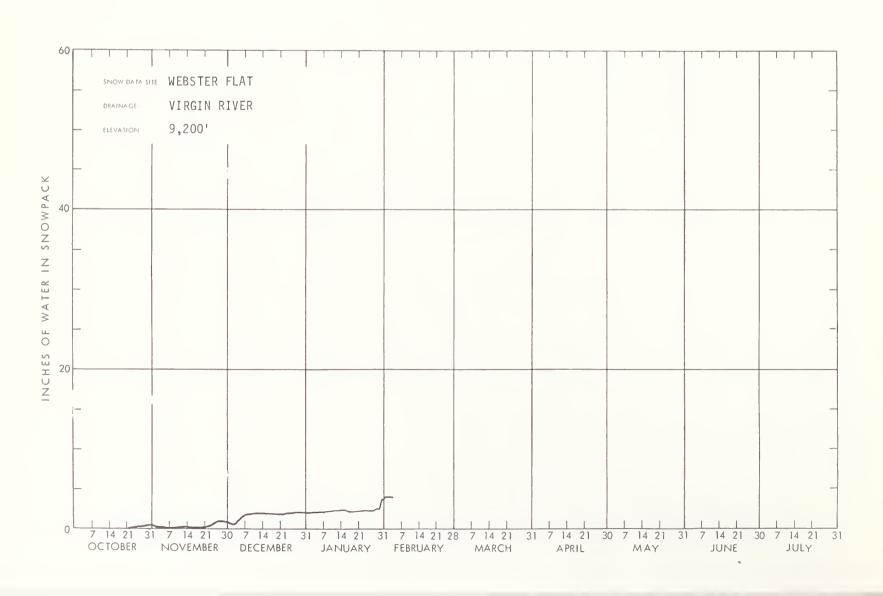


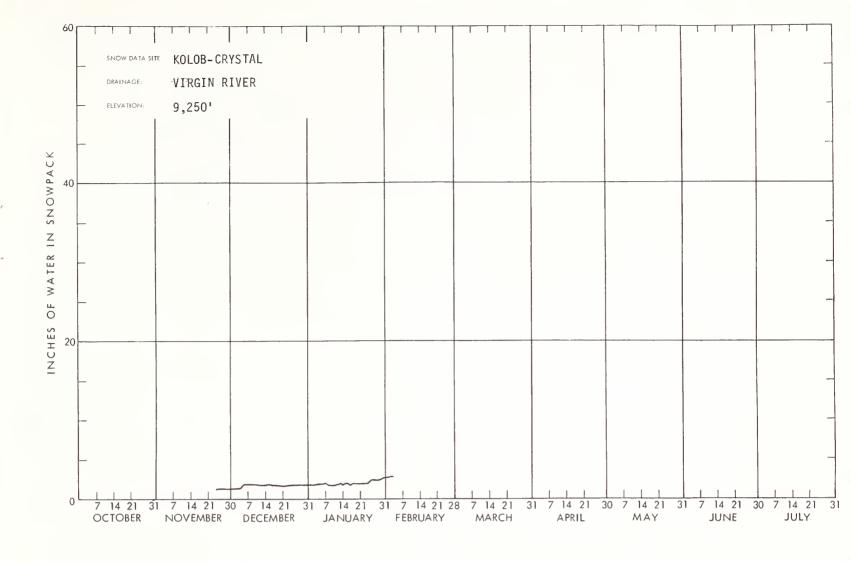


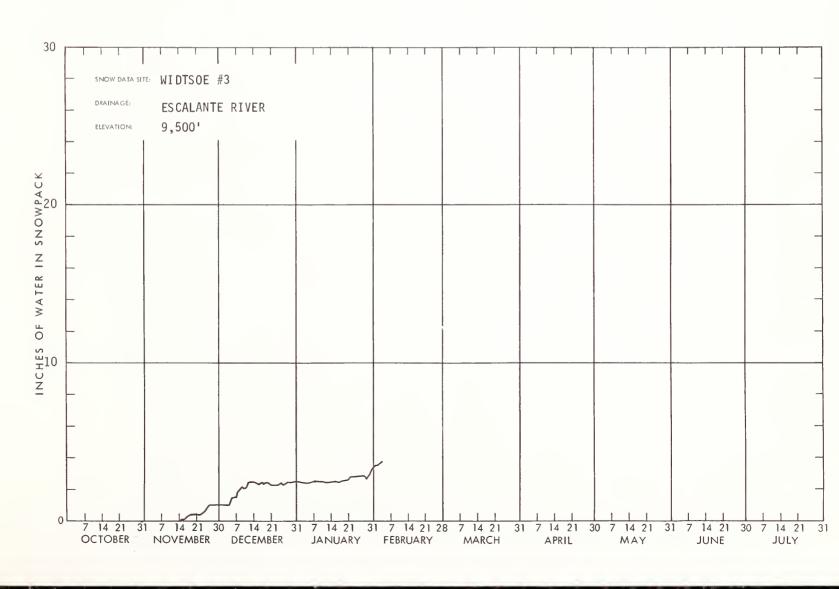


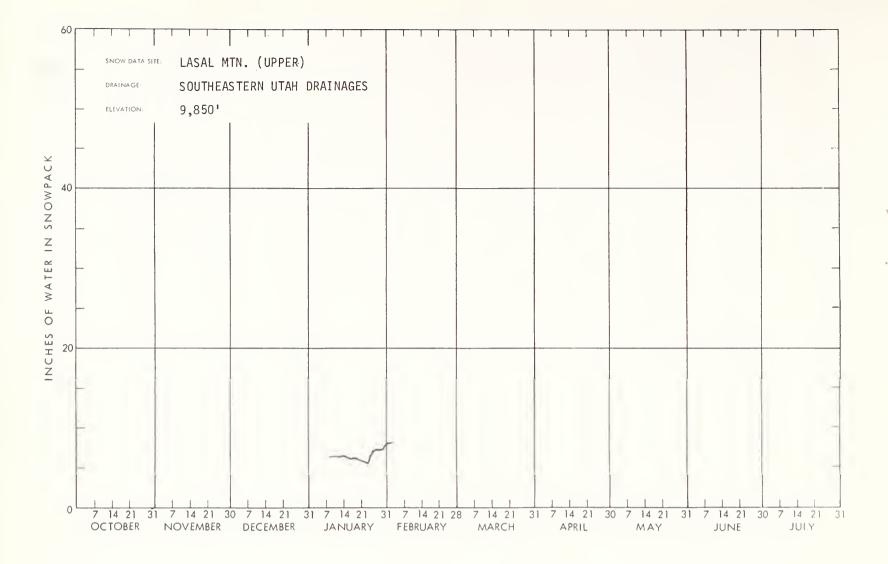


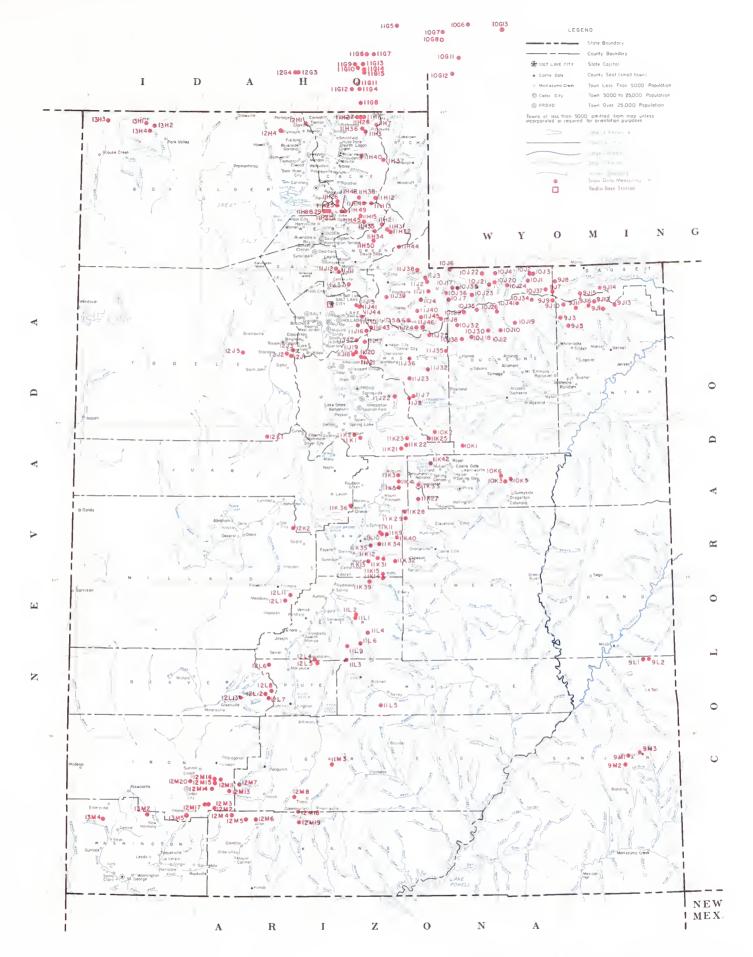














SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1981

CALE 1 1,500,01 ALBERS EQUAL AREA PROJECTION

# INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

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# Agencies Cooperating in Utah Snow Surveys

### U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture Soil Conservation Service Forest Service
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of Interior
  Water and Power Resources Service
  Geological Survey
  National Park Service

### STATE AGENCIES

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti Salt Lake City

### ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

### PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FEDERAL BLDG. -- ROOM 4420 125 SOUTH ST. SALT LAKE CITY, UTAH 84138

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U. S. DEPARTMENT OF
AGRICULTURE
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COOPERATIVE SNOW SURVEYS

FEDERAL - STATE - PRIVATE

"The Conservation of Water begins

with the Snow Survey"

domestic and municipal water

water supply for irrigation,

necessary for forecasting

Furnishes the basic data

supply, hydro-electric power

generation, navigation,

mining and industry































































